	pplication No.	Applicant(s)	ŕ
Notice of Allowability	0/602,982	NAUSE ET AL.	
Notice of Anowability	xaminer	Art Unit	•
E	ugene Lee	2815	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (Onerewith (or previously mailed), a Notice of Allowance (PTOL-85) or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 and the Office of Section 1.313 and 1.31	R REMAINS) CLOSED other appropriate comm 1TS. This application is	in this application. If not included nunication will be mailed in due course. J	
1. This communication is responsive to <u>2/6/06</u> .			
2. The allowed claim(s) is/are <u>1-10,12-15 and 17-19</u> .	•	•	
 3.	een received een received in Applicat	ion No	
 Copies of the certified copies of the priority documents. International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ments have been receiv	ed in this national stage application from	the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMENTHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	this communication to fi NT of this application.	le a reply complying with the requirement	ts
A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives	ed. Note the attached Exreason(s) why the oath	KAMINER'S AMENDMENT or NOTICE Cordectaration is deficient.	F
 CORRECTED DRAWINGS (as "replacement sheets") must be (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date 	i's Patent Drawing Revi		
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	(c)) should be written on header according to 37 (the drawings in the front (not the back) of CFR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO 	of BIOLOGICAL MA OR THE DEPOSIT OF B	TERIAL must be submitted. Note the IOLOGICAL MATERIAL.	
· · · · · · · · · · · · · · · · · · ·			
	5. ☐ Notice of	Informal Patent Application (PTO-152)	
Notice of References Cited (PTO-892)	6. Interview	Summary (PTO-413),	
Notice of References Cited (PTO-892) ∴ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Paper No	• • • • • • • • • • • • • • • • • • • •	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Paper No , 7. ☐ Examiner	Summary (PTO-413), o./Mail Date	

DETAILED ACTION

Allowable Subject Matter

1. Claims 1 thru 10, 12 thru 15, and 17 thru 19 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a high electron mobility transistor (HEMT) comprising: a channel layer being composed of a II-VI compound semiconductor zinc oxide (ZnO); and a gate insulating layer composed of at least one of a Group-III nitride compound semiconductor and a magnesium zinc oxide oxide (MgZnO) quantum well structure.

Regarding claims 17 thru 19, the references of record, either singularly or in combination, do not teach or suggest at least a method comprising the steps of: defining a channel layer composed of a II-VI compound semiconductor zinc oxide (ZnO); forming a gate insulating layer composed of at least one of a Group-III nitride compound semiconductor and a magnesium zinc oxide (MgZnO) quantum well structure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The examiner can normally be reached on M-F 8-5.

Art Unit: 2815

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eugene Lee

April 12, 2006

EUGENE LEE PRIMARY EXAMINER 1/2



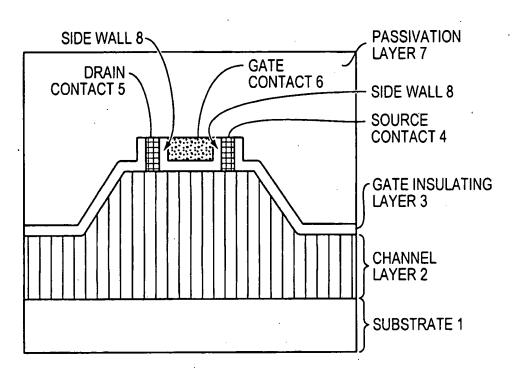


FIG. 1

DK 4/12/06